

Variables	Postoperative CSF diversion		P-value
	Yes (15)	No (106)	
Sex			0.012 <sup>a</sup>
Female	3 (4.9%)	51 (95.1%)	
Male	12 (20%)	48 (80%)	
Tumor size (mm)	40 (34-49)	36 (30-43)	0.100
Age (years)	18 (3-38)	24 (9-41)	0.301
Tumor pathology			
Ependymoma	3 (8.1%)	34 (91.9%)	0.226 <sup>b c</sup>
Medulloblastoma	5 (17.2%)	24 (82.8%)	1.0 <sup>b c</sup>
Astrocytoma	4 (20.0%)	16 (80.0%)	
Lateral extension			0.553 <sup>b</sup>
Yes	3 (8.8%)	31 (91.2%)	
No	12 (13.8%)	75 (86.2%)	
Anterior extension			0.159 <sup>b</sup>
Yes	88 (89.8%)	10 (10.2%)	
No	5 (21.7%)	18 (78.3%)	
Caudal extension			0.420 <sup>a</sup>
Yes	10 (14.5%)	59 (85.5%)	
No	5 (9.6%)	47 (90.4%)	
Superior extension			0.015 <sup>b</sup>
Yes	5 (35.7%)	9 (64.3%)	
No	10 (9.3%)	97 (90.7%)	
Extent of resection			<0.001 <sup>b</sup>
GTR	3 (3.3%)	87(96.7%)	
STR	12 (38.7%)	19(61.3%)	
Preoperative hydrocephalus			<0.001 <sup>a</sup>
Yes	15 (21.4%)	55 (78.6%)	
No	0 (0%)	51 (100%)	
Prophylactic EVD			0.091 <sup>a</sup>
Yes	10 (17.9%)	46 (82.1%)	
No	5 (7.7%)	60 (92.3%)	

CSF, cerebrospinal fluid; GTR, gross total resection; STR, subtotal resection; EVD, external ventricular drainage.

<sup>a</sup> Chi-square test.

<sup>b</sup> Fisher exact test.

<sup>c</sup> p value compared with astrocytoma